Metal
Cutlery Scourers.

British 18894

[This Drawing is a reproduction of the Original on a reduced scale.]

(1 SHEET)

Fig. 1.

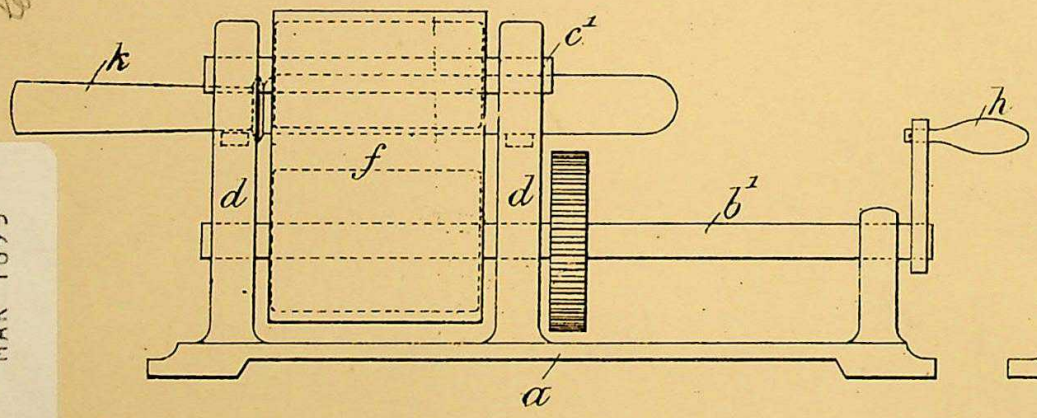
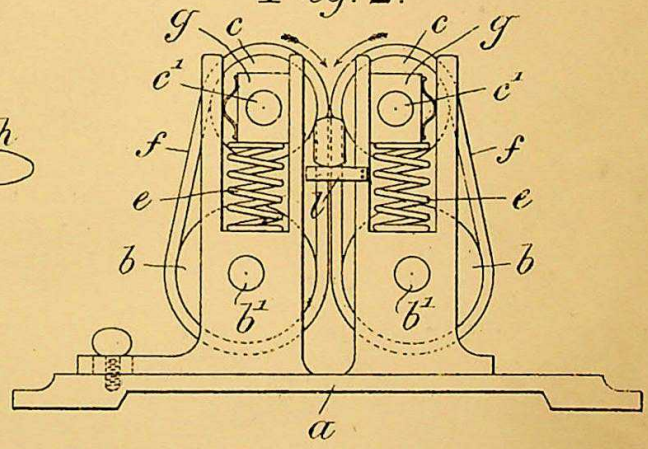


Fig. 2.



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Complete Specification Left, 18th Feb., 1895—Accepted, 23rd Mar., 1895

PROVISIONAL SPECIFICATION.

Improved Knife Cleaning Machine.

HENRY BENNETT of Middleton Saint George in the County of Durham do hereby declare the nature of this invention to be as follows :—

My invention consists of a knife cleaner, constructed so that the knife or knives are placed between two belts running close together both at the same speed and in the same direction thus cleaning both sides of the knife at the same time. I would place the pulleys and shafting on which the belts work on a base plate, the pulleys to be placed on the end of each shaft to facilitate the changing of the belts. The standards and journals carrying the shafts to be on the right hand or on one side of the pulleys. The belts and pulleys to be any suitable width, and one pulley placed a little above the other for one belt to work upon.

The other pair of pulleys and belts to be placed alongside and sufficiently close to the other pair that the belts will touch each other when in motion. On the other end of the two bottom shafts I would place a pair of wheels of equal diameter so that the belts would run at the same speed, the handle or crank to work the same to be placed on the right hand or wheel end of the shaft.

The belts I would have made of a composition of india rubber and emery powder or other polishing substance, or if preferred may be leather belts or belts made of other suitable material. The belts instead of running vertically may be fixed to work horizontally if preferred.

Dated this 17th day of May 1894.

HENRY BENNETT.

COMPLETE SPECIFICATION.

Improved Knife Cleaning Machine.

I, HENRY BENNETT, of 3, Princes Terrace, Darlington, and late of Middleton St. George, both in the County of Durham, Inspecting Engineer, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement :—

My invention consists of a knife cleaner, constructed so that by placing the knife or knives between two endless belts running close together, both at the same speed and in the same direction, both sides of the knife or knives are cleaned at the same time.

A machine embodying my invention is illustrated in the accompanying drawing, in side elevation in Figure 1 and in end elevation to the left in Figure 2. The machine is preferably mounted on its own base plate *a*, and consists of two lower pulleys *b b* and two upper pulleys *c c* rotating upon shafts b^1 b^1 and c^1 c^1 respectively, which have their bearings or journals housed in the standards *d d*, those of lower shafts b^1 b^1 being fixtures and those of the upper shafts c^1 c^1 being adjustable and controlled by spiral springs *e e* or their equivalents, to keep the belts *f f* in a proper state of tension. The journal blocks *g g* whilst free to adjust themselves vertically under the action of the springs *e e* are restricted as to their sideward movement either by fully occupying the space from side to side within the

housings *d d* like a slide block or by being kept in surface contact with one side only by means of a spring at the other side as shown in Figure 2, the resilience of which has the advantage of sustaining a uniform or adjustable pressure of contact between the belts and the knife blade irrespective of variations of thickness or the like inequalities in the knife to be cleaned or in the belts themselves. The shafts b^1 b^1 are geared together so that both are rotated by turning the handle *h*. The knife *k* is inserted between the belts *f f* with its back supported against the rest *l* so that by turning the handle the belts rub past the blade of the knife and both in the same direction. One such rest only is shown in the drawings but other rests would be provided in machines intended to clean more than one knife at a time.

The pulleys are preferably detachable from the shafts which are inserted into them endwise so as to enable the belts to be readily replaced when required. The belts may be made of any suitable material such as a composition of india rubber and emery powder or other polishing substance or surface such as a brush, or if preferred leather belts may be used. The belts may be made to run in contact vertically or horizontally or at any convenient angle.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is :—

In a knife cleaning machine the use of endless belts, passing round pullies and brought into surface contact with each other, so that a knife inserted between them is cleaned on both sides simultaneously, all combined, arranged and operating substantially as hereinbefore described with reference to the accompanying drawing.

Dated this 16th day of February 1895.

G. J. CLARKSON,
Chartered Patent Agent, Stockton-on-Tees,
Agent for the Applicant.

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